

## **South Coast Air Quality Management District**

## Engineering & Compliance

Policies & Procedures

## SOUTH COAST AIR QUALITY MANAGEMENT DISTRIC

## **MEMORANDUM**

**DATE:** December 3, 1986

TO: Sanford M. Weiss, Director of Engineering
FROM: Jo Anne Aplet, Director of Planning /s/ JAA
SUBJECT: Unit Risk Factors for Selected Chemical Species

As requested verbally by Bob Murray and George Ames, we are providing current unit risk factors for substances specified of concern for the proposed T. P. Industrial Inc. groundwater treatment system. In addition, George Ames questioned whether EPA plans to revise the 1,1-dichloroethylene (vinylidene chloride) unit risk factor. On December 3, 1986 Emily Nelson of my staff spoke with Dr. Steven Bayard of EPA's Carcinogen Assessment Group who was a principal author of the present carcinogenicity sections of the Final Health Assessment Document for Vinylidene Chloride (EPA/60/8-83/031F August, 1985). Dr. Bayard is not aware of any move to issue an addendum to the Health Assessment Document to change the unit risk factor or the weight of evidence classification. If any changes are proposed, he stated that he would notify my staff of those proposals.

The following are current unit risk factors for the substances requested:

Species	Unit Risk Factor (μg/m <sup>3</sup> ) <sup>-1</sup>
1,1,1-Trichloroethane	
Trichloroethylene	1.3*10 <sup>-6</sup>
Perchloroethylene	5.8*10 <sup>-7</sup>
Methylene Chloride	4.1*10 <sup>-6</sup>
Freon 113	
1,1-Dichloroethylene (vinylidene chloride)	5.0*10 <sup>-5</sup>
1,1,2-Trichloroethane	
1,1-Dichloroethane	
1,2-Dichloroethane (Eth Mene Dichloride)	2.2*10 <sup>-5</sup>
Trans 1,2-Trichloroethylene	
Chloroform	2.3*10 <sup>-5</sup>
Toluene	

<sup>---</sup> no current risk factor published by EPA or DOHS

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